

What is Claimed is:

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1. An electro-acoustic system for use with electronic sound-generating equipment, comprising:
an fitted earmold having a sound-conduction bore extending therethrough;
a sound-conducting tube having a passage with one end of the tubing connected to the earmold so that the passage is opposite the sound-conduction bore and, a curved portion adapted to extend along a person's head between the person's head and an ear;
a speaker acoustically coupled to the other end of the sound-conduction tube
10 for conducting sound into the passage;
an electrical cable having one end connected to the speaker for driving the speaker; and
an electrical plug connected to another end of the electrical cable for electrical connection to the electronic sound-generating member.

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2. An electro-acoustic system as in claim 1, in which the speaker is acoustically coupled to the other end of the sound conduction tube by a sound conduction tube.

20 3. An electro-acoustic system as in claim 1, where a connector has an inner end including a passage connected to the sound-conduction bore, and an outer end connected to the one end of the sound-conduction tube for conducting sound from the sound-conduction tube to the sound-conduction bore.

25 4. An electro-acoustic system as in claim 3, wherein the sound-conduction bore has an entry section and an exit section.

30 5. An electro-acoustic system as in claim 4, wherein a seating member is disposed in the entry section.

6. An electro-acoustic system as in claim 5, wherein the connector has an elbow configuration and includes a tubing-receiving section, a latching section and a

sound-conduction tubular passage extending from the tubing-receiving section to an outer end of the latching section, the latching section mating with the seating member to latchably secure the connector in the entry section of the sound-conduction bore.

5 7. An electro-acoustic system as in claim 6, wherein the tubing-receiving section has a diameter to receive the other end of the sound-conduction tubing.

10 8. An electro-acoustic system as in claim 6, wherein an internal diameter of the sound-conduction tubing, the diameter of the sound-conduction tubular passage, and the diameter of the exit section of the sound-conduction bore are the same therealong.

15 9. An electro-acoustic system as in claim 7, wherein a filter is disposed in the tubing-receiving section adjacent the other end of the sound-conduction tubing.

10 10. An electro-acoustic system as in claim 9, wherein the tubing-receiving section has a shoulder against which the filter engages.

20 11. An electro-acoustic system as in claim 5, wherein the seating member has an annular section disposed in the entry section and an annular shoulder disposed against the earmold.

25 12. An electro-acoustic system as in claim 6, wherein the latching section has an annular recess, and an annular barb located in the annular recess for engaging the inner surface of the seating member.

30 13. An electro-acoustic system as in claim 6, wherein a space is provided in the entry section between an inner end of the seating member and an inner surface of the entry section, and a nubbin of the latching section is disposed within the space.

14. An electro-acoustic system as in claim 1, wherein the electrical cable has a coiled section.

15. An electro-acoustic system as in claim 1, wherein the electrical cable
has an electrical connector therein.

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